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Amendment under PCT Article 34

CLAIMS

1. (Amended) A foil for a cathode of a capacitor, comprising: an aluminum foil; and

a carbon-containing layer formed on a surface of said aluminum foil, the foil further comprising:

an interposition layer that is formed between said aluminum foil and said carbon-containing layer and contains aluminum and carbon,

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said carbon-containing layer is formed so as to extend outward from the surface of said aluminum foil.

- 2. The foil for a cathode of a capacitor according to claim 1, wherein said carbon-containing layer includes therein an interposition material containing aluminum and carbon.
 - 3. (Deleted)
- 4. The foil for a cathode of a capacitor according to claim 1, wherein said interposition layer constitutes a first surface portion that is formed on at least a part of the surface of said aluminum foil and contains a carbide of aluminum, and

said carbon-containing layer constitutes a second surface portion that is formed so as to extend outward from said first surface portion.

- 5. A manufacturing method of a foil for a cathode of a capacitor, comprising the steps of:
 - arranging an aluminum foil in a space containing a

hydrocarbon-containing substance; and

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heating said aluminum foil.

- 6. The manufacturing method of a foil for a cathode of a capacitor according to claim 5, wherein said step of arranging the aluminum foil involves adhering at least one kind selected from the group consisting of a carbon-containing substance and an aluminum powder to a surface of the aluminum foil and, then, arranging the aluminum foil in a space containing a hydrocarbon-containing substance.
- 7. The manufacturing method of a foil for a cathode of a capacitor according to claim 5, wherein said step of heating the aluminum foil is carried out within a temperature range between 450°C or more and less than 660°C.